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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/954,773	09/18/2001	David A. Lightfoot	1268/2/2	1268/2/2 8934	
25297	7590 09/16/2003				
	JENKINS & WILSON, PA			EXAMINER	
3100 TOWER BLVD SUITE 1400			KRUSE, DAVID H		
DURHAM, NC 27707			ART UNIT	PAPER NUMBER	
			1638	8	
			DATE MAILED: 09/16/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summers	09/954,773	LIGHTFOOT ET AL.			
Office Action Summary	Examiner	Art Unit			
	David H Kruse	1638			
The MAILING DATE f this communication appears n the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
Responsive to communication(s) filed on					
	—· is action is non-final.				
·		recognition on to the morite in			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
- 4)⊠ Claim(s) <u>1,3,4,8-14,22,24-28,30,31 and 35-42</u>	is/are pending in the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) 1,3,4,8-14,22,24-28,30,31 and 35-42 are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received.					
15)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) D Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1, 3 and 4, drawn to a method of conveying soybean sudden death resistance into non-resistant soybean germplasm comprising introgressing resistance using one or more nucleic acid markers, classified in class 800, subclass 267, for example.
- II. Claims 8-14 and 33, drawn to a quantitative trait loci associated with resistance to soybean sudden death syndrome mapping to a linkage group in the soybean genome, classified in class 536, subclass 23.1, for example.
- III. Claims 22, 24-28 and 35, drawn to a soybean plant, classified in class 800, subclass 312, for example.
- IV. Claims 30 and 31, drawn to a method for identifying soybean sudden death syndrome resistance or soybean cyst nematode resistance in a soybean plant using a SDS resistance gene or a SCN resistance gene, classified in class 435, subclass 6, for example.
- V. Claims 36 and 37, drawn to an isolated soybean rfs1 gene, classified in class 536, subclass 23.6, for example.
- VI. Claims 38-42, drawn to a method of determining soybean sudden death syndrome resistance in a soybean plant comprising culturing infected tissue, classified in class 435, subclass 34, for example.

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The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I, IV and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are unrelated because the method of each of Groups I, IV and VI have different method steps, different starting materials and different effects.
- 3. Inventions I and II and V are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the trait loci of Group II or the isolated rfs1 gene of Group V can be used in a materially different process that the method of breeding of Group I, such as in a nucleic acid identification method.
- 4. Inventions I and III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the soybean of Group III can be made using a materially different process than the method using a nucleic acid marker of Group I, such as in a method of selection in the field.

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5. Inventions II, III and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are unrelated because the quantitative trait loci of Group II, the soybean plant of Group III and the isolated rfs1 gene of Group V are structurally, compositionally and functionally distinct one from the other.

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- 6. Inventions II and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the quantitative trait loci of Group II can be used in a materially different process than that of Group IV, such as in a chromosomal mapping technique.
- 7. Inventions II, V and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are unrelated because the quantitative trait loci of Group II or the soybean rfs1 gene of Group V cannot be used to practice the method of Group VI.
- 8. Inventions III and IV and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP §

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808.01). In the instant case the different inventions are unrelated because the method of either Group IV or Group VI cannot be used to make the soybean plant of Group III.

- 9. Inventions V and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are unrelated because the isolated rfs1 gene of Group VII cannot be used to practice the method of Group VIII.
- 10. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, recognized divergent subject matter, and because the search required for one of the groups is not required for another, restriction for examination purposes as indicated is proper.
- 11. Applicant is advised that the reply to this requirement to be complete within one month (not less than 30 days) must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 12. Applicant is advised that if Applicant elects Group II, Applicant is also <u>required</u> to elect one linkage group marker to be examined with the elected group.
- 13. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Kruse, Ph.D. whose telephone number is (703) 306-4539. The examiner can normally be reached on Monday to Friday from 8:00 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Amy Nelson can be reached at (703) 306-3218. The fax telephone number for this Group is (703) 872-9306 Before Final or (703) 872-9307 After Final.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group Receptionist whose telephone number is (703) 308-0196.

, David H. Kruse, Ph.D. 15 September 2003